



# **Analytical Laboratory**

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

### **Order Summary Report**

Order Number:	J13080064													
Project Name:	NPDES - QUARTERLY													
Customer Name(s):	Michael Byrd, Craig Mercer, Mark J Harper, Todd Spade, Matthew Hoyt													
Customer Address:	11021 BROWER RD.													
	NORTH BEND, OH 45052													
Lab Contact:	Mary Ann Ogle	Phone: 980-875-5274												
Report Authorized By: (Signature)		Date:	8/23/2013											
(Ciginalia)	Mary Ann Ogle													

#### **Program Comments:**

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

#### **Data Flags & Calculations:**

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

#### Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

#### Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

# Sample ID's & Descriptions:

Sample ID	Collection Sample ID Plant/Station Date and Time		Collected By	Sample Description
2013018291	MIAMI-FORT	06-Aug-13 8:35 AM	Mark Harper	OUTFALL 002
2013018292	MIAMI-FORT	06-Aug-13 9:00 AM	Mark Harper	OUTFALL 608
2 Total Samples				

## **Technical Validation Review**

### **Checklist:**

and analyses (compliance programs and procedur	COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).  All Results are less than the laboratory reporting limits.						
All laboratory QA/QC requirements are acceptable		✓ Yes	☐ No				
Report Sections Included:							
✓ Job Summary Report	Sub-cont	racted Laborate	ory Results				
✓ Sample Identification	Custome	Specific Data	Sheets, Reports, & Documentation				
✓ Technical Validation of Data Package	Custome	Database Ent	ries				
✓ Analytical Laboratory Certificate of Analysis	✓ Chain of	Custody					
☐ Analytical Laboratory QC Report	☐ Electronic	c Data Delivera	able (EDD) Sent Separately				

Reviewed By: Mary Ann Ogle Date: 8/23/2013

## **Certificate of Laboratory Analysis**

This report shall not be reproduced, except in full.

### Order # J13080064

Site: OUTFALL 002 Sample #: 2013018291

Collection Date: 06-Aug-13 8:35 AM Matrix: NPDES

Analyte	Result	Units Q	ualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
AMMONIA (COLORIMETRIC)								
Ammonia (Colorimetric)	0.153	mg-N/L		0.02	1	EPA 350.1	08/19/2013 13:43	BGN9034
TOTAL KJELDAHL NITROGEN (CO	LORIMETRIC	)						
Total Kjeldahl Nitrogen (Colorimetric)	0.91	mg-N/L		0.15	1	EPA 351.2	08/15/2013 11:01	BGN9034
TOTAL DISSOLVED SOLIDS								
TDS	940	mg/L		25	1	SM2540C	08/12/2013 17:14	DSBAKE1

Site: OUTFALL 608 Sample #: 2013018292

Collection Date: 06-Aug-13 9:00 AM Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4.5		Oillio	quamicis	NDL	D.	Metrica	Analysis bate, Time	Analyst
Alkalinity (mg/L CaCO3)	1000	mg/L (CaCO3)		0.1	1	SM2320B	08/13/2013 16:14	TJA7067
INORGANIC IONS BY IC								
Chloride	5400	mg/L		100	1000	EPA 300.0	08/08/2013 16:33	JAHERMA
Fluoride	16	mg/L		10	100	EPA 300.0	08/08/2013 16:33	JAHERMA
Sulfate	12000	mg/L		200	2000	EPA 300.0	08/08/2013 16:33	JAHERMA
TOTAL METALS BY ICP								
Boron (B)	340	mg/L		0.5	10	EPA 200.7	08/12/2013 13:10	MHH7131
Iron (Fe)	0.053	mg/L		0.01	1	EPA 200.7	08/12/2013 13:10	MHH7131
Manganese (Mn)	1.01	mg/L		0.005	1	EPA 200.7	08/12/2013 13:10	MHH7131
TOTAL RECOVERABLE METALS BY	(ICP-MS							
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Barium (Ba)	133	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	08/14/2013 11:58	DJSULL1
TOTAL DISSOLVED SOLIDS								
TDS	31000	mg/L		25	1	SM2540C	08/12/2013 17:14	DSBAKE1
TOTAL SUSPENDED SOLIDS								
TSS	13	mg/L		5	1	SM2540D	08/12/2013 18:43	TJA7067

The second distance in	Name  MIAMI-FORT NPDES Quarterly (Week 1 - Aug 6, 2013)  Mel Byrd, Tara Thomas, Matthew Hoyt  Misse Unit:  Misse ONLY  About 12 Chem  Desktop No.  Misse ONLY  Mis	Energy Analytica				nalytical Laboratory Use Only										Anal	lytical La							
Dul	ke erav.	Mail Code M	Hagers Ferry	Rd	11ms#		Ole4 N	PDES						ОН	Page Page of 5  DISTRIBUTION  ORIGINAL to LAB,  COPY to CLIENT									
		(704) 875-5245	Huntersville, N. C.	Fax: (704) 875-	Logged By Vendor	4	8/7//	3	115	59		SA	MPLE	PRO	GR/	AM:	COF	PY to C	CLIENT					
Project Name	MIAMI-FORT NPDES Quarterly (Week 1 - Aug 6, 2013)		NPDES Quarterly				7,5 Cooler Temp (C)					NPDES_X												
Client Nichael Byrd, Ta	ra Thomas,	Matthew Ho	yt	4)Fax No:	PO#			<sup>15</sup> Pres 2=H <sub>2</sub> S(	erv.:1= 0 <sub>4</sub> 3=	=HCL HNO <sub>3</sub>	>	40												
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AB USE ONLY			<sup>13</sup> Sample Des	cription or ID	14(	Collectio	n Informati		17Comp.	18 Grab	TDS	TKN, NH3	TKN, NH	KN, NH	KN, NH	KN, NH	KN, NH	B, Fe, Mn, Cd, Cr, Ct	TSS	CI, F, SO4	Alkalinity			
11Lab ID	Desktop	No.	Outfo			0835		ure	-	X	1	1												
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7)Relinquished B			Date/Time		8)Accepted B	ly.				Date/Tin	ne			IMPO	lesire		48 Hr_							
9)Seal/Locked By	Hayer		Date/Time 8-4-13 O	920	10) Seal/Lock	LDa	end			Date/Tin	13	11	00	ustomer,	Please indicate d		Other * Add. C	Cost Will	Apply					